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FILE COVERS 1967 - 12 Aug 1999 VOL 131 ISS 7
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=> s SepPak

L1 108 SEPPAK

=> s nucleic(W)acid#

81307 NUCLEIC
2684248 ACID#
L2 80672 NUCLEIC(W)ACID#

=> s L1 and L2

L3 0 L1 AND L2

=> e seppak

E1	3	SEPPACK/BI
E2	1	SEPPAELAE/BI
E3	108 -->	SEPPAK/BI
E4	2	SEPPAKC18/BI
E5	2	SEPPAKS/BI
E6	3	SEPPALA/BI
E7	1	SEPPALAINEN/BI
E8	1	SEPPEAK/BI
E9	1	SEPPELER/BI
E10	2	SEPPELT/BI
E11	2	SEPPEN/BI
E12	1	SEPPENTINE/BI

=> s E3,E4,E5

108 SEPPAK/BI
2 SEPPAKC18/BI
2 SEPPAKS/BI
L4 110 (SEPPAK/BI OR SEPPAKC18/BI OR SEPPAKS/BI)

=> s L2 and L4

L5 0 L2 AND L4

=> D L4 kwic

L4 ANSWER 1 OF 110 CAPLUS COPYRIGHT 1999 ACS
AB . . . h. Prorenin, renin and angiotensinogen were measured by enzyme-kinetic assay; Ang I and Ang II were measured by RIA after **SepPak** extn. and HPLC sepn. Results: Prorenin, but none of the other RAS components, could be detected in the medium of. . .

=> d

L4 2 kwic

L4 ANSWER 2 OF 110 CAPLUS COPYRIGHT 1999 ACS
AB . . . antibacterial activity in human lung. We attempted to purify
these mols. from bronchoalveolar lavage fluid (BALF). Extn. of BALF on
SepPak C-18 cartridges, followed by continuous acid-urea
liq. polyacrylamide gel electrophoresis and reverse-phase high-performance
chromatog. yielded one fraction with antibacterial activity. . .

=> s oligonucleotide# and L4

40506 OLIGONUCLEOTIDE#
L6 0 OLIGONUCLEOTIDE# AND L4

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	13.98	14.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.07	-1.07

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PASSWORD:
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FILE 'USPAT' ENTERED AT 15:19:49 ON 12 AUG 1999

* * * * *

The . . . (Foster City, Calif.). ROX-NHS (6-carboxy rhodamine X succinimidyl ester) and TAMRA-SE (5-carboxy tetramethylrhodamine succinimidyl ester) were obtained from ABI/Perkin Elmer. **Oligonucleotides** were synthesized on a 1 .mu.mole scale using an ABI 380B automated DNA synthesizer with standard reagents supplied by the . . .

. addition of the phosphoramidite reagent 6-FAM Amidite (ABI) at the final step of the synthesis. For other 5' dye labeled **oligonucleotides**, 5' aminohexyl phosphoramidite (ABI AMINOLINK 2) was substituted at the final step to provide a reactive amino group for subsequent conjugation. For conjugating dyes to internal positions of the **oligonucleotide**, a modified dT phosphoramidite reagent, amino-modifier C6 dT (Glen Research, Sterling, Va.) was substituted in the appropriate sequence position in place of unmodified dT. The crude **oligonucleotides** were deprotected by treatment with ammonium hydroxide for 4 to 8 hours at 55.degree. C., which also deprotected the modified dT. These were filtered and solvent was evaporated from the filtrate with a rotary vacuum apparatus. **Oligonucleotides** were purified directly following this step by reverse phase HPLC. Sequences with only the modified internal dT aminolinker were prepared. . . . 5' terminal dimethoxytrityl (DMT) intact and purified by RP HPLC. The resulting 5'-DMT full length product was deprotected using a **SepPak** column (Waters) with 2% trifluoroacetic acid and dried prior to coupling with reactive dyes.

US PAT NO: 5,846,726 [IMAGE AVAILABLE]

L3: 3 of 15

DETDESC:

DETD(23)

The . . . Perkin Elmer (Foster City, Calif.). ROX-NHS (6-carboxy rhodamine.times.succinimidyl ester) and TAMRA-SE (5-carboxy tetramethylrhodamine succinimidyl ester) were obtained from ABI/Perkin Elmer. **Oligonucleotides** were synthesized on a 1 .mu.mole scale using an ABI 380B automated DNA synthesizer with standard reagents supplied by the. . . addition of the phosphoramidite reagent 6-FAM Amidite (ABI) at the final step of the synthesis. For other 5' dye labeled **oligonucleotides**, 5' aminohexyl phosphoramidite (ABI AMINOLINK 2) was substituted at the final step to provide a reactive amino group for subsequent conjugation. For conjugating dyes to internal positions of the **oligonucleotide**, a modified dT phosphoramidite reagent, amino-modifier C6 dT (Glen Research, Sterling, Va.) was substituted in the appropriate sequence position in place of unmodified dT. The crude **oligonucleotides** were deprotected by treatment with ammonium hydroxide for 4 to 8 hours at 55.degree. C., which also deprotected the modified dT. These were filtered and solvent was evaporated from the filtrate with a rotary vacuum apparatus. **Oligonucleotides** were purified directly following this step by reverse phase HPLC. Sequences with only the modified internal dT aminolinker were prepared. . . . 5' terminal dimethoxytrityl (DMT) intact and purified by RP HPLC. The resulting 5'-DMT full length product was deprotected using a **SepPak** column (Waters) with 2% trifluoroacetic acid and dried prior to coupling with reactive dyes.

US PAT NO: 5,837,499 [IMAGE AVAILABLE]

L3: 4 of 15

DETDESC:

DETD(45)

The gel remnants were removed by centrifugation and the **oligonucleotides** isolated by chromatography on **SepPak** C-18 columns (Waters Associates). The columns were pre-equilibrated by washing sequentially with 10 ml acetonitrile, 5 ml 30% acetonitrile in 50 mM TEAB and 10 ml 25 mM TEAB. The **oligonucleotides** were applied, washed with 10 ml 25 mM TEAB, and eluted from the columns with 5 ml 50% acetonitrile

in 35.5 mM TEAB. Fractions were collected and those containing the **oligonucleotides**, as determined by absorbance at 260 nm, were dried in a SpeedVac (Savant).

DETDESC:

DETD(54)

The . . . encoding for C5a(1-74, TLM), respectively. Then, the plasmids were used in cassette mutagenesis to make a series of new genes. **Oligonucleotides** used in cassette mutagenesis were made with an Applied Biosystems 381A DNA Synthesizer, using solid phase phosphoramidite chemistry according to. . . dissolved in 45 .mu.l TE buffer (10 mM Tris.HCl at pH 7.4 containing 1 mM EDTA) yielding pWCB112/A. single stranded **oligonucleotides** a 35 bp- sequence, 5'CTGCGTGCTAACATCTCTCACAAAGACATGTGCTA3' (SEQ. ID. NO. 7), and a 39 bp-sequence, 5'AGCTTAGCACATGTCTTTGTGAGAGATGTTAGCACGCAG3' (SEQ. ID. NO. 8), were purified by preparative electrophoresis on a 8% polyacrylamide gel. Following electrophoresis, the **oligonucleotides** were visualized by UV shadowing and the appropriate fragment excised from the gel. The gel slice was pulverized in a. . . TEAB buffer at pH 7.5 for 16 h at 37.degree. C. The gel remnants were removed by centrifugation and the **oligonucleotides** isolated by chromatography on **SepPak C-18** columns (Waters Associates). The columns were pre-equilibrated by washing sequentially with 10 ml acetonitrile, 5 ml 30% acetonitrile in 50 mM TEAB and 10 ml 25 mM TEAB. The **oligonucleotides** were applied, washed with 10 ml 25 mM TEAB, and eluted from the columns with 5 ml 50% acetonitrile in. . .

US PAT NO: 5,807,824 [IMAGE AVAILABLE]

L3: 5 of 15

DETDESC:

DETD(44)

The gel remnants were removed by centrifugation and the **oligonucleotides** isolated by chromatography on **SepPak C-18** columns (Waters Associates). The columns were pre-equilibrated by washing sequentially with 10 ml acetonitrile, 5 ml 30% acetonitrile in 50 mM TEAB and 10 ml 25 mM TEAB. The **oligonucleotides** were applied, washed with 10 ml 25 mM TEAB, and eluted from the columns with 5 ml 50% acetonitrile in 35.5 mM TEAB. Fractions were collected and those containing the **oligonucleotides**, as determined by absorbance at 260 nm, were dried in a SpeedVac (Savant).

DETDESC:

DETD(54)

Single stranded **oligonucleotides** a 35bp-sequence, 5'CTGCGTGCTAACATCTCTCACAAAGACATGTGCTA3' (SEQ. ID. NO. 7), and a 39 bp-sequence, 5'AGCTTAGCACATGTCTTTGTGAGAGATGTTAGCACGCAG3' (SEQ. ID. NO. 8), were purified by preparative electrophoresis on a 8% polyacrylamide gel. Following electrophoresis, the **oligonucleotides** were visualized by UV shadowing and the appropriate fragment excised from the gel. The gel slice was pulverized in a. . . TEAB buffer at pH 7.5 for 16 h at 37.degree. C. The gel remnants were removed by centrifugation and the **oligonucleotides** isolated by chromatography on **SepPak C-18** columns (Waters Associates). The columns were pre-equilibrated by washing sequentially with 10 ml acetonitrile, 5 ml 30% acetonitrile in 50 mM TEAB and 10 ml 25 mM TEAB. The **oligonucleotides** were applied, washed with

10 ml 25 mM TEAB, and eluted from the columns with 5 ml 50% acetonitrile in. . .

US PAT NO: 5,661,134 [IMAGE AVAILABLE]

L3: 6 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO:13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,654,284 [IMAGE AVAILABLE]

L3: 7 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all Rpphosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the

primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO:13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,635,488 [IMAGE AVAILABLE]

L3: 8 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:2) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO:2) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,620,963 [IMAGE AVAILABLE]

L3: 9 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO: 13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO: 13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,607,923 [IMAGE AVAILABLE]

L3: 10 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . ethanol as above. The precipate was resuspended in H.sub.2 O and purfied using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO:13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,599,797 [IMAGE AVAILABLE]

L3: 11 of 15

DETDESC:

DETD(54)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very

quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(55)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO:13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,587,361 [IMAGE AVAILABLE]

L3: 12 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGGTTGAG (SEQ. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO:13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,576,302 [IMAGE AVAILABLE]

L3: 13 of 15

DETDESC:

DETD(54)

A large scale enzymatic synthesis of sequence specific all Rp phosphorothioate **oligonucleotide** was effected utilizing a 55-mer natural phosphodiester template and a 41-mer natural phosphodiester primer. The template sequence was GTACTTGCATAGTCGATCGGAAAATAGGGTTCTCATCTC CCGGGATTGGTTGAG (SEQ. . . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7 M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(55)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGACTATGCAAGTAC (SEQ ID NO:13) phosphorothioate **oligonucleotide** was purified using polyacrylamide/7 M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGACTATGCAAGTAC (SEQ ID NO: 13) all Rp configuration phosphorothioate **oligonucleotide** from a 20 mL reaction.

US PAT NO: 5,506,212 [IMAGE AVAILABLE]

L3: 14 of 15

DETDESC:

DETD(11)

A large scale enzymatic synthesis of sequence specific all-Rp phosphorothioate **oligonucleotide** was effected utilizing a 55 mer natural phosphodiester template and a 41 mer natural phosphodiester primer. The template sequence was:. . . 5 minutes and snap cooled, i.e. very quickly cooled with ice. The template and primer were removed from the synthesized **oligonucleotide** by the addition of 4.6 .mu.M DNase I and incubation at 37.degree. C. for 10 minutes. The reaction mixture was. . . ethanol as above. The precipitate was resuspended in H.sub.2 O and purified using 20% polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.).

DETDESC:

DETD(12)

In an alternate synthesis, Pst 1 restriction nuclease (Life Technologies, Inc., Gaithersburg, Md.) was used to cleave the primer-bound phosphorothioate **oligonucleotide** at the restriction site. The desired CGA CTA TGC AAG TAC phosphorothioate **oligonucleotide** was purified using polyacrylamide/7M urea gel electrophoresis coupled with **SepPak**.TM. chromatography (Millipore, Milford, Mass.). Yields were optimized using enzymatic cascade effected by repetitive template-primer addition throughout the reaction. The cascade augmented synthesis yielded 75 A.sub.260 units of the CGA CTA TGC

AAG TAC all-Rp configuration phosphorothioate **oligonucleotide** from a 20 ml reaction.

US PAT NO: 5,275,946 [IMAGE AVAILABLE]

L3: 15 of 15

SUMMARY:

BSUM(49)

The **oligonucleotides** are deprotected and purified by polyacrylamide gel electrophoresis using the conditions published by New York Theriault, et al., *ibid.* They are desalted on Waters **SepPak** C-18 cartridges. Their sizes and purities are confirmed by labeling with γ -³²p ATP and polynucleotide kinase and running them on. . .

=> d L3 1-15

1. 5,929,226, Jul. 27, 1999, Antisense oligonucleotide alkylphosphonothioates and arylphosphonothioates; A. Padmapriya, et al., 536/25.3; 435/6; 536/23.1, 24.31, 24.5; 558/122, 132 [IMAGE AVAILABLE]
2. 5,919,630, Jul. 6, 1999, Detection of nucleic acids by fluorescence quenching; James G. Nadeau, et al., 435/6, 91.2; 536/23.1, 24.3, 25.3, 25.32 [IMAGE AVAILABLE]
3. 5,846,726, Dec. 8, 1998, Detection of nucleic acids by fluorescence quenching; James G. Nadeau, et al., 435/6, 91.2; 536/24.3, 25.3, 25.32 [IMAGE AVAILABLE]
4. 5,837,499, Nov. 17, 1998, DNA encoding C5A receptor antagonists having substantially no agonist activity and methods of expressing same; Jan van Oostrum, et al., 435/69.6, 69.7, 70.1, 71.1, 252.3, 252.33, 254.11, 320.1, 325; 530/408; 536/23.4, 23.5 [IMAGE AVAILABLE]
5. 5,807,824, Sep. 15, 1998, C5A receptor antagonists having substantially no agonist activity; Jan van Oostrum, et al., 514/12; 530/324 [IMAGE AVAILABLE]
6. 5,661,134, Aug. 26, 1997, Oligonucleotides for modulating Ha-ras or Ki-ras having phosphorothioate linkages of high chiral purity; Phillip Dan Cook, et al., 514/44, 42, 43, 45, 46; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]
7. 5,654,284, Aug. 5, 1997, Oligonucleotides for modulating RAF kinase having phosphorothioate linkages of high chiral purity; Phillip Dan Cook, et al., 514/44; 536/22.1, 23.1, 23.7, 23.72, 24.32 [IMAGE AVAILABLE]
8. 5,635,488, Jun. 3, 1997, Compounds having phosphorodithioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 42, 43; 536/25.33, 25.34 [IMAGE AVAILABLE]
9. 5,620,963, Apr. 15, 1997, Oligonucleotides for modulating protein kinase C having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]
10. 5,607,923, Mar. 4, 1997, Oligonucleotides for modulating cytomegalovirus having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 912, 914; 536/23.1, 25.34 [IMAGE AVAILABLE]

11. 5,599,797, Feb. 4, 1997, Oligonucleotides having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 42, 43, 45, 46; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]
12. 5,587,361, Dec. 24, 1996, Oligonucleotides having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44; 536/22.1, 23.1, 23.7, 23.72, 24.32 [IMAGE AVAILABLE]
13. 5,576,302, Nov. 19, 1996, Oligonucleotides for modulating hepatitis C virus having phosphorothioate linkages of high chiral purity; Phillip D. Cook, et al., 514/44, 42, 43, 45, 46; 536/24.5, 25.33, 25.34 [IMAGE AVAILABLE]
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